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《环境科学》征订启事(557) 《环境科学》征稿简则(594) 信息(419,442,781)	

编者按

2015 年 8 月 12 日,天津港发生化学品爆炸事故,易燃易爆化学品爆炸造成了重大人员伤亡和财产损失,泄漏的有毒化学品(氰化物等)对人类健康及生态安全构成极大威胁.回首十年前,2005 年 11 月 13 日,吉林石化发生爆炸,上百吨苯类有毒化学品流入松花江,造成了严重的江水污染,对水生态系统和沿岸居民造成深远影响.随着我国社会经济的高速发展,工业化和城市化进程不断加速,化学品的生产和使用量持续增加,由此带来的化学品生产、加工、储存、运输、使用、回收和废物处置等多个环节的环境风险日益加大.由化学品引发的突发环境事件频发,环境风险与环境损害日益呈现,化学品环境管理和环境风险防控形势日趋严峻.

本期特邀请中国科学院生态环境研究中心王铁宇研究员撰写此专论,他一直从事化学品的污染生态过程、风险评价与环境管理的相关研究,在国内外核心刊物上发表论文 100 余篇.文章在对化学品健康风险、生态风险以及区域风险评价方法阐述的基础上,从化学品风险管理的对象入手,提出了我国化学品的风险管理框架和建议.加强化学品环境管理、防控环境风险,探索符合科学规律、适应我国国情的化学品环境管理和环境风险防控长远战略与管理机制,直至实现化学品环境风险管理的主动防控、系统管理和综合防治,这些都是未来的研究方向.期望此文能以点带面、抛砖引玉,使读者有所启发和收获.

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